Title (en)

SYNTHESIS OF PHENYL-SUBSTITUTED FLUORANTHENES BY A DIESEL-ALDER REACTION AND THE USE THEREOF

Title (de)

SYNTHESE VON PHENYLSUBSTITUIERTEN FLUORANTHENEN DURCH DIELS-ALDER-REAKTION UND IHRE VERWENDUNG

Title (fr)

SYNTHESE DE FLUORANTHENES SUBSTITUES PAR UN PHENYLE PAR UNE REACTION DIELS-ALDER ET LEUR UTILISATION

Publication

EP 1673322 B1 20080416 (DE)

Application

EP 04765659 A 20040928

Priority

- EP 2004010850 W 20040928
- DE 10345583 A 20030929

Abstract (en)

[origin: WO2005033051A1] The invention relates to fluoranthene derivatives of general formula (I). Said invention also relates to a method for producing and using the inventive fluoranthene derivatives in the form of emitting molecules in organic light-emitting diodes (OLEDs), a light emitting layer containing the inventive fluoranthene derivatives in the form of emitting molecules, an OLED containing said inventive light emitting layer and devices containing the inventive OLED.

IPC 8 full level

C07C 13/66 (2006.01); **C07C 2/86** (2006.01); **C09K 11/06** (2006.01); **H05B 33/14** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP KR US)

C07C 2/867 (2013.01 - EP KR US); **C07C 13/66** (2013.01 - EP KR US); **C09K 11/06** (2013.01 - EP KR US); **H05B 33/14** (2013.01 - EP KR US); **H10K 50/11** (2023.02 - KR); **H10K 50/182** (2023.02 - KR); **H10K 85/622** (2023.02 - EP KR US); **H10K 85/626** (2023.02 - EP KR US); C07C 2603/48 (2017.05 - EP KR US); C09K 2211/1011 (2013.01 - EP KR US); H10K 50/11 (2023.02 - EP US); Y10S 428/917 (2013.01 - EP KR US)

C-Set (source: EP US)

C07C 2/867 + **C07C 13/66**

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005033051 A1 20050414; AT E392402 T1 20080515; CN 1874979 A 20061206; CN 1874979 B 20100526; DE 10345583 A1 20050519; DE 502004006863 D1 20080529; EP 1673322 A1 20060628; EP 1673322 B1 20080416; JP 2007507449 A 20070329; JP 4510825 B2 20100728; KR 101158593 B1 20120622; KR 20060116198 A 20061114; US 2007069198 A1 20070329; US 7906225 B2 20110315

DOCDB simple family (application)

EP 2004010850 W 20040928; AT 04765659 T 20040928; CN 200480032309 A 20040928; DE 10345583 A 20030929; DE 502004006863 T 20040928; EP 04765659 A 20040928; JP 2006530032 A 20040928; KR 20067008313 A 20040928; US 57380304 A 20040928